

SAMPLING AND ESTIMATION DETAILS FOR THE PENNSYLVANIA PORTION OF
THE NATIONAL INVENTORY OF SOIL AND WATER CONSERVATION NEEDS

BU-189-M

Thomas M. Beetle

July, 1965

Abstract

This paper provides some details on the sampling and estimation procedures for each county in Pennsylvania. It is intended as a supplement to BU-180-M.

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Sampling and estimation procedures in Pennsylvania were straightforward and followed the general procedures described in BU-180-M. No adjusted procedures were thought to be required. Because of its urban nature, Philadelphia County was not sampled.

The four numbers under the county name in the following tables denote sample design, sample unit size, sampling rate, and estimation procedure according to the following code:

First
Number

1

Sample Design

Stratified within county

2

Stratified within land resource
unit within county

3

Combination of Code 1 and Code 2

Second
Number

1

Sample Size

100 acres

2

250 acres

3

400 acres

Third
Number

Approximate sampling rate percentage

Fourth
Number

1

Estimation Procedure

Single expansion ratio for entire
county

2

Separate expansion ratio for each
land resource unit in the county

Water estimates are excluded from the River Basin estimates in all counties.

ADAMS COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

317,543

Adjusted Sample Ac.

7,029

Estimated Ac.

317,575

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	165,444	41,703	98,310	12,108	- -	- -
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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

169,924

020700 - Potomac River

4,518

020740 - Monocacy River

143,133

Excluded Acreage:

Federal land 2,600

Urban 15,134

Water 1,323

ALLEGHENY COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

466,700

Adjusted Sample Ac.

9,820

Estimated Ac.

466,684

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	62,732	16,954	91,047	76,711	217,819	1,410
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River Basin - Ohio River Drainage Basin

Estimated Ac.

070000 - Ohio River Drainage Basin

154,448

070100 - Allegheny River

159,699

070200 - Monongahela River

105,209

070230 - Youghiogheny River

27,614

070300 - Beaver River

18,304

Excluded Acreage:

Federal land 500

ARMSTRONG COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

420,000

Adjusted Sample Ac.

9,000

Estimated Ac.

420,020

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	115,085	19,411	191,160	88,672	3,593	2,100
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River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

366,631

070140 - Kiskiminetas River

51,289

Excluded Acreage:

Inundations 2,400

BEAVER COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

280,940

Adjusted Sample Ac.

5,902

Estimated Ac.

280,911

Land Use: Cropland Pasture Forest Other Urban Water

Estimated Ac.: 59,271 37,210 127,375 28,144 28,903 - -

River Basin - Ohio River Drainage Basin

Estimated Ac.

070000 - Ohio River Drainage Basin

195,733

070320 - Connoquenessing Creek

85,178

Excluded Acreage:

Federal land 300

Water 1,000

BEDFORD COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

628,307

Adjusted Sample Ac.

14,327

Estimated Ac.

628,281

Land Use: Cropland Pasture Forest Other Urban Water

Estimated Ac.: 137,064 50,759 428,228 12,289 - - - -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020532 - Juniata River, Raystown Branch

448,481

020700 - Potomac River

179,800

Excluded Acreage:

Inundations 1,100

Urban 19,899

Water 2,194

BERKS COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

552,200

Adjusted Sample Ac.

12,095

Estimated Ac.

552,292

Land Use: Cropland Pasture Forest Other Urban Water

Estimated Ac.: 266,901 48,183 182,326 29,606 23,789 1,507

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020320 - Lehigh River

9,133

020330 - Schuylkill River

477,725

020500 - Susquehanna River

63,927

Excluded Acreage:

Federal land 500

Inundations 300

BLAIR COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.
338,736

Adjusted Sample Ac.
7,490

Estimated Ac.
338,748

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	59,738	12,608	240,966	8,355	17,052	- -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020530 - Juniata River

122,106

020531 - Juniata River, Frankstown Branch

216,642

Excluded Acreage:

Water 1,104

BRADFORD COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.
703,464

Adjusted Sample Ac.
15,597

Estimated Ac.
703,437

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	198,295	96,598	354,575	53,929	- -	- -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020510 - Susquehanna River, North Branch

640,745

020512 - Chemung River

31,122

020513 - Tioga River

13,532

020520 - Susquehanna River, West Branch

18,038

Excluded Acreage:

Urban 27,541

Water 3,075

BUCKS COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.
393,076

Adjusted Sample Ac.
8,572

Estimated Ac.
393,121

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	136,298	24,865	116,994	36,604	78,376	- -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020300 - Delaware River

338,135

020330 - Schuylkill River

54,986

Excluded Acreage:

Federal land 400

Water 1,424

BUTLER COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

481,204

Adjusted Sample Ac.

10,262

Estimated Ac.

481,195

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	150,854	45,251	203,088	82,019	--	--

River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

132,747

070320 - Connoquenessing Creek

348,448

Excluded Acreage:

Federal land 100

Urban 25,157

Water 1,799

CAMBRIA COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

443,534

Adjusted Sample Ac.

9,400

Estimated Ac.

443,537

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	79,659	6,325	298,355	34,430	24,305	468

River Basins - Middle Atlantic and Ohio River Drainage Basins

Estimated Ac.

020520 - Susquehanna River, West Branch

188,581

070141 - Conemaugh River

254,488

Excluded Acreage:

LRU B15c3 1,245

CAMERON COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

250,640

Adjusted Sample Ac.

5,493

Estimated Ac.

250,649

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	1,506	914	244,350	3,880	--	--

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020521 - Sinnemahoning Creek

250,649

Excluded Acreage:

Inundations 1,500

Urban 3,713

Water 787

CARBON COUNTY, PENNSYLVANIA
2, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
259,193	5,400		259,202			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	25,274	1,637	202,884	19,289	8,530	1,595
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020320 - Lehigh River						251,751
020330 - Schuylkill River						5,856

CENTRE COUNTY, PENNSYLVANIA
3, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
692,200	15,132		692,128			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	118,364	23,549	523,903	26,289	- -	- -
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020500 - Susquehanna River						140,693
020520 - Susquehanna River, West Branch						158,305
020522 - Bald Eagle Creek						351,646
020530 - Juniata River						41,484
<u>Excluded Acreage:</u>						
Urban	19,200					
Water	2,200					

CHESTER COUNTY, PENNSYLVANIA
1, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
485,407	10,271		485,433			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	219,251	115,382	92,592	40,457	17,722	47
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020300 - Delaware River						307,205
020330 - Schuylkill River						107,332
020500 - Susquehanna River						42,493
020700 - Potomac River						28,356
<u>Excluded Acreage:</u>						
Federal land	1,000					

CLARION COUNTY, PENNSYLVANIA

1, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
383,360		8,250		383,354		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	90,939	4,884	214,334	65,905	4,829	2,455
<u>River Basin</u> - Ohio River Drainage Basin						<u>Estimated Ac.</u>
070100 - Allegheny River						121,834
070130 - Clarion River						259,065

CLEARFIELD COUNTY, PENNSYLVANIA

1, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
701,493		15,174		701,478		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	71,140	14,931	577,678	34,155	- -	3,560
<u>River Basins</u> - Middle Atlantic and Ohio River Drainage Basins						<u>Estimated Ac.</u>
020520 - Susquehanna River, West Branch						578,185
020521 - Sinnemahoning Creek						68,884
070100 - Allegheny River						50,849

Excluded Acreage:

Urban 30,667

CLINTON COUNTY, PENNSYLVANIA

3, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
577,280		12,348		577,289		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	35,537	11,415	501,572	20,070	8,164	534
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020500 - Susquehanna River						9,332
020520 - Susquehanna River, West Branch						415,163
020521 - Sinnemahoning Creek						27,783
020522 - Bald Eagle Creek						119,822
020523 - Pine Creek						4,655

COLUMBIA COUNTY, PENNSYLVANIA

2, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
309,800		6,899		309,799		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	126,986	10,106	125,593	32,697	11,707	2,684
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020500 - Susquehanna River						3,786
020510 - Susquehanna River, North Branch						279,463
020520 - Susquehanna River, West Branch						23,866

CRAWFORD COUNTY, PENNSYLVANIA

1, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
625,584	13,719			625,586		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	218,703	139,765	187,049	76,888	- -	3,192

River Basins - Great Lakes and St. Lawrence Drainage Basin
and Ohio River Drainage Basin

	<u>Estimated Ac.</u>
040300 - Lake Erie	50,162
070100 - Allegheny River	112,861
070120 - French Creek	360,831
070311 - Shenango River	98,540

Excluded Acreage:

Urban	24,656
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CUMBERLAND COUNTY, PENNSYLVANIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
333,474	7,531			333,469		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	177,832	26,350	113,536	14,216	- -	1,550

River Basin - Middle Atlantic Drainage Basin

020500 - Susquehanna River	<u>Estimated Ac.</u>
	331,919

Excluded Acreage:

Federal land	2,000
Urban	19,726

DAUPHIN COUNTY, PENNSYLVANIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
332,200	7,200			332,205		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	119,180	16,142	146,582	19,465	28,700	2,122

River Basin - Middle Atlantic Drainage Basin

020500 - Susquehanna River	<u>Estimated Ac.</u>
	330,083

Excluded Acreage:

Federal land	600
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DELAWARE COUNTY, PENNSYLVANIA

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
118,200	2,600		118,204			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	10,668	6,296	17,409	20,593	62,534	708
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020300 - Delaware River						117,496
<u>Excluded Acreage:</u>						
Federal land		200				

ELK COUNTY, PENNSYLVANIA

1, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
388,604	8,980		388,565			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	16,831	3,592	337,032	31,115	- -	- -
<u>River Basins</u> - Middle Atlantic and Ohio River Drainage Basins						<u>Estimated Ac.</u>
020521 - Sinnemahoning Creek						159,752
070100 - Allegheny River						4,326
070130 - Clarion River						224,487
<u>Excluded Acreage:</u>						
Federal land		113,100				
Inundations		1,400				
Urban		13,080				
Water		1,616				

ERIE COUNTY, PENNSYLVANIA

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>			
519,680	10,473		519,659			
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	185,323	102,604	124,514	69,202	37,117	857
<u>River Basins</u> - Great Lakes and St. Lawrence Drainage Basin and Ohio River Drainage Basin						<u>Estimated Ac.</u>
040300 - Lake Erie						270,897
070120 - French Creek						247,905

FAYETTE COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

508,400

Adjusted Sample Ac.

10,800

Estimated Ac.

508,334

Land Use:

Cropland

Pasture

Forest

Other

Urban

Water

Estimated Ac.:

78,162

37,452

309,750

61,693

19,110

2,118

River Basin - Ohio River Drainage Basin

Estimated Ac.

070200 - Monongahela River

211,003

070220 - Cheat River

56,480

070230 - Youghiogheny River

238,733

Excluded Acreage:

Inundations

3,600

FOREST COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

149,381

Adjusted Sample Ac.

3,959

Estimated Ac.

149,367

Land Use:

Cropland

Pasture

Forest

Other

Urban

Water

Estimated Ac.:

5,432

2,905

135,071

5,958

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River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

134,279

070130 - Clarion River

15,088

Excluded Acreage:

Federal land

110,500

Inundations

2,800

Urban

5,294

Water

825

FRANKLIN COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

444,313

Adjusted Sample Ac.

9,989

Estimated Ac.

444,264

Land Use:

Cropland

Pasture

Forest

Other

Urban

Water

Estimated Ac.:

210,802

57,885

159,334

16,167

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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

77,829

020530 - Juniata River

17,787

020700 - Potomac River

348,648

Excluded Acreage:

Federal land

14,300

Urban

22,309

Water

1,638

FULTON COUNTY, PENNSYLVANIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
268,829	6,085			268,830		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	73,696	18,152	166,027	10,954	- -	- -

River Basin - Middle Atlantic Drainage Basin

020530 - Juniata River	<u>Estimated Ac.</u>
020532 - Juniata River, Raystown Branch	70,382
020700 - Potomac River	17,673
	180,775

Excluded Acreage:

Urban	8,659
Water	912

GREENE COUNTY, PENNSYLVANIA

1, 1, 2, 2

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
369,280	8,000			369,267		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	58,817	134,146	137,083	37,875	630	718

River Basin - Ohio River Drainage Basin

070000 - Ohio River Drainage Basin	<u>Estimated Ac.</u>
070200 - Monongahela River	87,784
	280,765

HUNTINGDON COUNTY, PENNSYLVANIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>	<u>Adjusted Sample Ac.</u>			<u>Estimated Ac.</u>		
569,300	12,600			569,260		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	64,649	27,279	434,973	34,229	6,235	1,852

River Basin - Middle Atlantic Drainage Basin

020530 - Juniata River	<u>Estimated Ac.</u>
020531 - Juniata River, Frankstown Branch	288,562
020532 - Juniata River, Raystown Branch	175,569
	103,277

Excluded Acreage:

Federal land	1,800
Inundations	1,100

INDIANA COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

528,200

Adjusted Sample Ac.

11,600

Estimated Ac.

528,194

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	144,591	46,325	246,946	76,194	11,473	2,732

River Basins - Middle Atlantic and Ohio River Drainage Basins

Estimated Ac.

020520 - Susquehanna River, West Branch

40,981

070100 - Allegheny River

199,575

070140 - Kiskiminetas River

76,905

070141 - Conemaugh River

208,001

Excluded Acreage:

Inundations 3,600

JEFFERSON COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

417,280

Adjusted Sample Ac.

8,878

Estimated Ac.

417,285

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	63,742	23,081	256,053	64,669	7,616	2,129

River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

331,894

070130 - Clarion River

83,262

JUNIATA COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

237,754

Adjusted Sample Ac.

5,344

Estimated Ac.

237,706

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	53,264	11,777	158,357	14,253	- -	- -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

22,193

020530 - Juniata River

215,513

Excluded Acreage:

Urban 9,126

Water 800

LACKAWANNA COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

220,723

Adjusted Sample Ac.

6,120

Estimated Ac.

220,732

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	25,133	13,449	166,304	15,827	- -	- -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020300 - Delaware River

18,034

020320 - Lehigh River

25,246

020510 - Susquehanna River, North Branch

177,452

Excluded Acreage:

Urban 68,855

Water 982

LANCASTER COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

603,700

Adjusted Sample Ac.

12,291

Estimated Ac.

603,706

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	406,057	60,007	85,358	21,897	30,356	- -

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020300 - Delaware River

4,912

020500 - Susquehanna River

598,794

Excluded Acreage:

Federal land 400

Inundations 700

LAWRENCE COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

234,880

Adjusted Sample Ac.

5,000

Estimated Ac.

234,930

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	102,335	32,475	48,450	30,781	19,732	1,175

River Basin - Ohio River Drainage Basin

Estimated Ac.

070000 - Ohio River Drainage Basin

18,795

070300 - Beaver River

50,933

070310 - Mahoning River

28,143

070311 - Shenango River

75,131

070320 - Connoquenessing Creek

60,753

- 14 -

LEBANON COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

216,300

Adjusted Sample Ac.

4,697

Estimated Ac.

216,277

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	93,789	31,853	75,468	13,487	- -	1,658

River Basin - Middle Atlantic Drainage Basin

020330 - Schuylkill River

020500 - Susquehanna River

Estimated Ac.

22,794

191,825

Excluded Acreage:

Federal land 600

Urban 15,400

LEHIGH COUNTY, PENNSYLVANIA

2, 1, 2, 2

Adjusted Census Ac.

222,080

Adjusted Sample Ac.

4,895

Estimated Ac.

222,080

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	129,704	10,668	40,515	20,486	16,941	3,758

River Basin - Middle Atlantic Drainage Basin

020320 - Lehigh River

020330 - Schuylkill River

Estimated Ac.

171,041

47,281

LUZERNE COUNTY, PENNSYLVANIA

3, 1, 2, 1

Adjusted Census Ac.

519,587

Adjusted Sample Ac.

11,691

Estimated Ac.

519,539

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	66,025	8,926	378,347	63,760	- -	2,444

River Basin - Middle Atlantic Drainage Basin

020320 - Lehigh River

020510 - Susquehanna River, North Branch

Estimated Ac.

77,944

439,151

Excluded Acreage:

Federal land 100

Urban 50,513

LYCOMING COUNTY, PENNSYLVANIA

3, 1, 2, 1

Adjusted Census Ac.

735,965

Adjusted Sample Ac.

16,656

Estimated Ac.

736,030

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	126,294	19,798	535,796	54,136	--	--

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020520 - Susquehanna River, West Branch

524,626

020523 - Pine Creek

211,404

Excluded Acreage:

Federal land 8,100

Inundations 600

Urban 30,393

Water 2,542

McKEAN COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

494,158

Adjusted Sample Ac.

10,022

Estimated Ac.

494,190

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	23,518	17,556	433,390	19,723	--	--

River Basins - Middle Atlantic and Ohio River Drainage Basins

Estimated Ac.

020521 - Sinnemahoning Creek

14,794

070100 - Allegheny River

430,088

070130 - Clarion River

49,308

Excluded Acreage:

Federal land 126,400

Urban 15,552

Water 1,990

MERCER COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

412,024

Adjusted Sample Ac.

8,908

Estimated Ac.

412,033

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	175,630	41,446	160,101	34,881	--	--

River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

45,561

070120 - French Creek

22,158

070311 - Shenango River

290,936

070320 - Connoquenessing Creek

53,378

Excluded Acreage:

Urban 22,271

Water 1,545

MIFFLIN COUNTY, PENNSYLVANIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
275,840		5,700		275,820		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	55,454	12,915	180,823	15,137	9,678	1,790
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020500 - Susquehanna River						9,677
020530 - Juniata River						264,353

MONROE COUNTY, PENNSYLVANIA

2, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
391,040		8,500		391,052		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	50,586	10,053	299,645	25,376	5,398	- -
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020300 - Delaware River						234,051
020320 - Lehigh River						157,001

MONTGOMERY COUNTY, PENNSYLVANIA

1, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
313,183		6,579		313,157		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	114,285	24,567	43,227	37,227	93,867	- -
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020300 - Delaware River						52,312
020330 - Schuylkill River						260,845
<u>Excluded Acreage:</u>						
Federal land		600				
Water		1,117				

MONTOUR COUNTY, PENNSYLVANIA

2, 1, 2, 1

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
83,200		1,900		83,200		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	40,810	8,760	22,684	6,571	4,379	- -
<u>River Basin</u> - Middle Atlantic Drainage Basin						<u>Estimated Ac.</u>
020510 - Susquehanna River, North Branch						26,275
020520 - Susquehanna River, West Branch						56,925

NORTHAMPTON COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

238,800

Adjusted Sample Ac.

5,296

Estimated Ac.

238,791

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	133,184	11,407	45,802	21,994	26,062	316
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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020300 - Delaware River

125,841

020320 - Lehigh River

112,634

Excluded Acreage:

Federal land 300

Inundations 300

NORTHUMBERLAND COUNTY, PENNSYLVANIA

2, 1, 2, 2

Adjusted Census Ac.

290,460

Adjusted Sample Ac.

6,465

Estimated Ac.

290,489

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	132,213	15,015	102,685	27,490	12,399	703
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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

184,736

020510 - Susquehanna River, North Branch

41,730

020520 - Susquehanna River, West Branch

63,320

Excluded Acreage:

Federal land 100

PERRY COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

339,610

Adjusted Sample Ac.

7,676

Estimated Ac.

339,550

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	97,786	17,376	205,776	18,564	- -	- -
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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

191,051

020530 - Juniata River

148,499

Excluded Acreage:

Urban 11,251

Water 1,139

PHILADELPHIA COUNTY, PENNSYLVANIA

Not sampled.

PIKE COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.
348,800

Adjusted Sample Ac.
8,000

Estimated Ac.
348,792

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	4,316	6,541	323,156	740	13,080	959

River Basin - Middle Atlantic Drainage Basin
020300 - Delaware River

Estimated Ac.
347,833

POTTER COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.
697,400

Adjusted Sample Ac.
14,425

Estimated Ac.
697,392

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	63,232	40,355	560,863	31,461	1,208	242

River Basins - Middle Atlantic Drainage Basin,
Great Lakes and St. Lawrence Drainage Basin, and
Ohio River Drainage Basin

Estimated Ac.

020513 - Tioga River	27,510
020520 - Susquehanna River, West Branch	125,709
020521 - Sinnemahoning Creek	145,048
020523 - Pine Creek	142,783
040230 - Genesee River	53,181
070100 - Allegheny River	202,919

Excluded Acreage:

Inundations 1,500

Notes: County summary tables contain a 49 acre error.

SCHUYLKILL COUNTY, PENNSYLVANIA

2, 1, 2, 2

Adjusted Census Ac.
501,120

Adjusted Sample Ac.
10,849

Estimated Ac.
501,115

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	101,719	15,480	285,612	72,346	23,490	2,472

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020320 - Lehigh River	54,021
020330 - Schuylkill River	241,594
020500 - Susquehanna River	203,028

SNYDER COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

199,713

Adjusted Sample Ac.

4,789

Estimated Ac.

199,710

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	79,364	13,053	99,084	8,219	- -	- -
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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

187,198

020530 - Juniata River

12,512

Excluded Acreage:

Urban 10,131

Water 716

SOMERSET COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

663,166

Adjusted Sample Ac.

14,394

Estimated Ac.

663,114

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	153,852	45,638	416,904	46,650	- -	- -
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River Basins - Middle Atlantic and Ohio River Drainage Basins

Estimated Ac.

020532 - Juniata River, Raystown Branch

27,641

020700 - Potomac River

69,101

070141 - Conemaugh River

244,768

070230 - Youghiogheny River

321,604

Excluded Acreage:

Urban 28,016

Water 2,578

SULLIVAN COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

298,568

Adjusted Sample Ac.

6,189

Estimated Ac.

298,556

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
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<u>Estimated Ac.:</u>	26,431	11,479	238,790	20,495	- -	1,351
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River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020510 - Susquehanna River, North Branch

48,241

020520 - Susquehanna River, West Branch

248,964

Excluded Acreage:

Urban 7,352

SUSQUEHANNA COUNTY, PENNSYLVANIA

1, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
535,039		11,575		535,049		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	121,087	87,992	283,327	29,704	11,920	994
<u>River Basin</u> - Middle Atlantic Drainage Basin					<u>Estimated Ac.</u>	
020510 - Susquehanna River, North Branch					534,055	

Notes: Expansion ratios were computed for the following land resource unit combinations:

B8c1 and B8c8 combined
B8c9 and B8c10 combined
B8d7 and B8d11 combined

TIOGA COUNTY, PENNSYLVANIA

1, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
736,000		15,400		735,953		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	136,843	89,523	442,300	59,686	5,710	1,882
<u>River Basin</u> - Middle Atlantic Drainage Basin					<u>Estimated Ac.</u>	
020510 - Susquehanna River, North Branch					4,417	
020513 - Tioga River					431,678	
020520 - Susquehanna River, West Branch					22,871	
020523 - Pine Creek					275,105	

UNION COUNTY, PENNSYLVANIA

2, 1, 2, 2

<u>Adjusted Census Ac.</u>		<u>Adjusted Sample Ac.</u>		<u>Estimated Ac.</u>		
203,520		4,258		203,513		
<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	71,460	4,300	118,585	7,446	1,715	-
<u>River Basin</u> - Middle Atlantic Drainage Basin					<u>Estimated Ac.</u>	
020500 - Susquehanna River					68,519	
020520 - Susquehanna River, West Branch					134,994	

VENANGO COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

412,211

Adjusted Sample Ac.

9,218

Estimated Ac.

412,227

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	59,431	16,099	281,152	55,544	- -	- -

River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

310,493

070120 - French Creek

93,370

070320 - Connoquenessing Creek

8,364

Excluded Acreage:

Urban 18,388

Water 1,401

WARREN COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

462,700

Adjusted Sample Ac.

10,000

Estimated Ac.

462,695

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	49,934	41,415	319,214	47,944	2,591	1,619

River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

461,076

Excluded Acreage:

Federal land 119,700

WASHINGTON COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

548,480

Adjusted Sample Ac.

11,588

Estimated Ac.

548,524

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	170,982	136,195	126,873	92,627	21,638	228

River Basin - Ohio River Drainage Basin

Estimated Ac.

070000 - Ohio River Drainage Basin

338,607

070200 - Monongahela River

209,689

WAYNE COUNTY, PENNSYLVANIA

1, 1, 2, 2

Adjusted Census Ac.

476,160

Adjusted Sample Ac.

9,990

Estimated Ac.

476,196

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	73,634	70,749	314,415	16,101	48	1,242

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020300 - Delaware River

423,236

020320 - Lehigh River

12,588

020510 - Susquehanna River, North Branch

39,130

WESTMORELAND COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

651,600

Adjusted Sample Ac.

14,053

Estimated Ac.

651,645

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	176,993	69,690	301,904	57,217	42,707	3,107

River Basin - Ohio River Drainage Basin

Estimated Ac.

070100 - Allegheny River

32,463

070140 - Kiskiminetas River

242,098

070141 - Conemaugh River

102,014

070200 - Monongahela River

54,766

070230 - Youghiogheny River

217,197

Excluded Acreage:

Inundations 4,400

WYOMING COUNTY, PENNSYLVANIA

1, 1, 2, 1

Adjusted Census Ac.

253,440

Adjusted Sample Ac.

5,600

Estimated Ac.

253,442

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	62,558	24,128	148,137	14,580	1,131	2,941

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020510 - Susquehanna River, North Branch

245,976

020520 - Susquehanna River, West Branch

4,525

YORK COUNTY, PENNSYLVANIA

2, 1, 2, 1

Adjusted Census Ac.

581,800

Adjusted Sample Ac.

12,475

Estimated Ac.

581,842

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	330,027	60,682	136,109	32,976	19,775	2,285

River Basin - Middle Atlantic Drainage Basin

Estimated Ac.

020500 - Susquehanna River

570,554

020700 - Potomac River

9,003

Excluded Acreage:

Federal land 1,100

Inundations 2,100